

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/053158

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B29C33/38 B29C33/56 B29L11/00 G02B5/08 C03B11/08		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 B29C C03B B29D G02B G02F G21K C23C B32B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 4 690 370 A (SKINNER JAMES R) 1 September 1987 (1987-09-01) the whole document	1,8,12, 15,19 2-4, 9-11,18, 20,21
Y	----- US 5 838 506 A (KIMURA KAZUMI ET AL) 17 November 1998 (1998-11-17) column 7, line 14 - line 60; claims 1,2; example 2	2,3,10, 11,18,20
Y	----- GB 1 167 690 A (FORD MOTOR COMPANY LIMITED) 22 October 1969 (1969-10-22) page 1, line 59 - page 2, line 6; claim 6; figures ----- <div style="text-align: center;">-/--</div>	4,9,21
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
* Special categories of cited documents :		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*&* document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search	Date of mailing of the international search report	
27 April 2005	04/05/2005	
Name and mailing address of the ISA	Authorized officer	
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Mathey, X	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 5 662 999 A (TANIGUCHI YASUSHI ET AL) 2 September 1997 (1997-09-02)	1,8,12, 15,19
Y	column 3, line 1 - line 20 column 4, line 50 - line 54 column 5, line 3 - line 17 column 7, line 49 - line 55; examples	4,9-11, 21
Y	US 5 505 808 A (HALLMAN ROBERT A ET AL) 9 April 1996 (1996-04-09) the whole document	4,9,21
Y	GB 1 045 016 A (ARTHUR ELLIOTT; UNIV LONDON KING S COLLEGE) 5 October 1966 (1966-10-05)	10,11
A	page 1, line 35 - page 2, line 12; claims 1-5; figures	16,17
X	US 5 723 174 A (SATO YASUHIKO) 3 March 1998 (1998-03-03)	1,8,12, 19
Y	column 6, line 35 - line 40; claim 1; figures	2,3,10, 11,20
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Y	EP 0 670 576 A (CITTERIO OBERTO) 6 September 1995 (1995-09-06)	10,11
A	column 3, line 3 - line 18; figures 1,2	16,17
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Y	column 4, line 23 - line 33	2,3,20
Y	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 03, 31 March 1999 (1999-03-31) & JP 10 337734 A (HOYA CORP), 22 December 1998 (1998-12-22) abstract	2,3,20

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